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NOTICE OF ALLOWANCE AND FEE(S) DUE

26652

7590

10/31/2008

EXAMINER
BATURAY, ALICIA

AT&T CORP. ROOM 2A207 ONE AT&T WAY BEDMINSTER, NJ 07921 BATURAY, ALICIA

ART UNIT PAPER NUMBER

2446

DATE MAILED: 10/31/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/042,142	01/11/2002	Wei Lin	03493.00296	5828

TITLE OF INVENTION: ENHANCED CHANNEL ACCESS MECHANISMS FOR AN HPNA NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	02/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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									(Signature)
									(Date)
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CFR 1.363). Change of corresp Address form PTO/S. "Fee Address" ind PTO/SB/47; Rev 03-(Number is required.	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.								
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Com GNEE	A TO BE PRINTED ON ified below, no assignee pletion of this form is NO	data will appear on t T a substitute for filin (B) RESIDENCE: (C	he pa g an a	ntent. If an assign assignment. and STATE OR C	COUNT	TRY)		
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5. Change in Entity Sta		,					·		
	ns SMALL ENTITY state and Publication Fee (if rea	us. See 37 CFR 1.27. uired) will not be accepte					TITY status. See 37 C		
interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.						
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
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AT&T CORP.			BATURAY, ALICIA			
ROOM 2A207			ART UNIT	PAPER NUMBER		
ONE AT&T WAY BEDMINSTER, N			2446 DATE MAILED: 10/31/200	_		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1202 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1202 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/042,142	LIN ET AL.
Notice of Allowability	Examiner	Art Unit
	Alicia Baturay	2446
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the c (OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to the request to lift sus	pension filed 06 February 2008.	
2. The allowed claim(s) is/are <u>1-61 and 80-91 renumbered as</u>	s 1-7 <u>3</u> .	
3. ☐ Acknowledgment is made of a claim for foreign priority unallocation of the second of the secon		
1. Certified copies of the priority documents have		
2. Certified copies of the priority documents have	· ·	
Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO	-948) attached
1) hereto or 2) to Paper No./Mail Date		·
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date		Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application
Notice of References Cited (FTO-692) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• •
2. Notice of Dranperson's Patent Drawing Review (PTO-946)	Paper No./Mail Da	te .
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Amendi	ment/Comment
Paper No./Mail Date 12/21/2007 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. ☑ Other <u>IDS 08/05/20</u>	<u>008</u> .

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Allowance

1. Claims 62-79 are withdrawn.

2. Claims 1-61 and 80-91 are allowed.

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than

the payment of the issue fee.

4. Authorization for this examiner's amendment was given in a telephone interview with

Michael Haynes (Reg. #40,014) on 29 May 2008.

5. The application has been amended as follows:

In the Claims: Claims 1, 18, 32, 49 and 80 have been amended.

Claim 1 (Currently Amended)

Line 9 "an HPNA 2.0 frame" has been replaced with -an HPNA v2 frame-.

Line 10 "the Backoff Signal Slot 0 one of" has been replaced with -the Backoff Signal

Slot 0 is one of-.

Claim 18 (Currently Amended)

Line 11 "HPNA 2.0 frame" has been replaced with -HPNA v2 frame-.

Line 12 "0 one of" has been replaced with **-0 is one of-.**

Claim 32 (Currently Amended)

Line 2 "a communications medium" has been replaced with -a telephone-wire-based

communications medium-.

Line 5 "a Media Control Station (MC STA) maintaining" has been replaced with -a

Media Control Station (MC STA) device maintaining-.

Line 8 "an HPNA 2.0 frame" has been replaced with -an HPNA v2 frame-.

Line 9 "the Backoff Signal Slot 0 one of" has been replaced with -the Backoff Signal

Slot 0 is one of—.

Claim 49 (Currently Amended)

A communications network, comprising: a telephone-wire-based communications

medium that is suitable for allowing use of a plurality of HPNA formatted frames, each

HPNA formatted frame being timed to allow a plurality of physical layer priority level

slots; and a non-Media Control Station (non-MC STA) device receiving a message from

a Media Control (MC) STA, the non-MC STA and the MC STA each being enhanced

STAs that gain access to the communications medium in a centralized manner, the MC

STA maintaining a list of sessions in enhanced STAs using the communications medium,

the received message starting in a highest physical layer priority level available in a first

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HPNA v2-formatted frame, the non-MC STA transmitting a reply message in response to

the received message to the MC STA, the reply message being transmitted using a

highest physical layer priority level available with a second HPNA v2-formatted frame,

at least one enhanced STA adapted to always choose a Backoff Signal Slot 0 of an HPNA

2.0 v2 frame during contention resolution with an HPNA v2 station, the Backoff Signal

Slot 0 is one of only three Backoff Signal Slots specified under HPNA v2 for use in

contention resolution after a collision.

Claim 80 (Currently Amended)

Line 11 "an HPNA 2.0" has been replaced with -an HPNA v2-.

Line 12 "the Backoff Signal Slot 0 one of" has been replaced with -the Backoff Signal

Slot 0 is one of-.

In the Specification: pages 1, 9 and 10 have been amended.

Page 1, paragraph 01

This application claims priority to provisional U.S. Application Ser. No. 60/269,354,

entitled "Enhanced Channel Access Mechanisms For A QoS-Driven HPNA Network,"

invented by Wei Lin and Matthew Sherman, filed February 20, 2001, and provisional

U.S. Application Ser. No. 60/269,861, entitled HPNA 3.0 channel access mechanism for

compatibility with HPNA 2, invented by Matthew J. Sherman, filed February 21,2001,

both of which are incorporated by reference herein. The present application is also related

to U.S. Patent Application Serial No. (Atty Docket No. IDS 2000-0672B, 3493.00297) 10/042,165, now U.S. Patent No. 7,298,757, U.S. Patent Application Serial No. (Atty Docket No. IDS 2000-0672C, 3493.00298) 10/042,179, now U.S. Patent No. 7,293,103, U.S. Patent Application Serial No. (Atty Docket No. IDS 2000-0672E, 3493.00326) 10/042,166, now U.S. Patent No. 7,310,326, and pending U.S. Patent Application Serial No. (Atty Docket No. 1DS 2000-0672A, 3493.00337) 10/042,143, each entitled "Enhanced Channel Access Mechanism For QoS-Driven HomePNA (HPNA 2.1), each filed on December 19, 2001, and each incorporated by reference herein.

Page 9-10, paragraph 26

The medium access techniques of the present invention maybe used by an enhanced STA separately or in combination for gaining preferential access to the HN communications medium. Additionally, the preferential medium access techniques of the present invention can be used in conjunction with the centralized medium access techniques disclosed by U.S. Patent Application Serial No. 09/616,900, now U.S. Patent No. 6,862,270, entitled "An Architectural Reference Model For QoS-Driven Wireless Lans LANs," invented by J.-M. Ho; to U.S. Patent Application Serial No. 09/616,901, now U.S. Patent No. 6,804,222, entitled "An In-Band QoS Signaling Reference Model for QoS-Driven Wireless LANs," invented by W. Lin and J.-M. Ho; to U.S. Patent Application Serial No. 09/617,083, now U.S. Patent No. 7,151,762, entitled "Virtual Streams for QoS-Driven Wireless LANs," invented by J.-M. Ho and W. Lin; to U.S. Patent Application Serial No. 09/616,897, now U.S. Patent No. 6,970,422, entitled "Admission Control for QoS-Driven

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Wireless LANs," invented by W. Lin and J.-M. Ho; to U.S. Patent Application Serial No. 09/616,896, entitled "Frame Classification for QoS-Driven Wireless LANs," invented by J.-M. Ho and W. Lin; to U.S. Patent Application Serial No. 09/617,493, now U.S. Patent No. 6,850,981, entitled "Frame Scheduling for QoS-Driven Wireless LANs," invented by J.-M. Ho and W. Lin; to U.S. Patent Application Serial No. 09/617,494, now U.S. Patent No. 6,999,442, entitled "RSVP/SBM Based Down-Stream Session Setup, Modification, and Teardown for QoS-Driven Wireless LANs," invented by J.-M. Ho and W. Lin; to U.S. Patent Application Serial No. 09/616,878, now U.S. Patent No. 7,068,632, entitled "RSVP/SBM Based Up-Stream Session Setup, Modification, and Teardown for QoS-Driven Wireless LANs," invented by J.-M. Ho and W. Lin; to U.S. Patent Application Serial No. 09/617,440, now U.S. Patent No. 6,950,397, entitled "RSVP/SBM Based Side-Stream Session Setup, Modification, and Teardown for QoS-Driven Wireless LANs," invented by J.-M. Ho and W. Lin; and to U.S. Patent Application Serial No. 09/616,885, now U.S. Patent No. 7,068,633, entitled "Enhanced Channel Access Mechanisms for QoS-Driven Wireless LANs," invented by J.-M. Ho; to U.S. Patent Application Serial No. 09/617,439, now U.S. Patent No. 7,031,287, entitled "Centralized Contention and Reservation Request for QoS-Driven Wireless LANs," invented by J.-M. Ho and W. Lin; to U.S. Patent Application Serial No. 09/616,884, now U.S. Patent No. 7,039,032, entitled "Multipoll for QoS-Driven Wireless LANs," invented by J.-M. Ho and W. Lin; each filed July 14, 2000, and each of which is incorporated by reference herein. Additionally, the present application is related to U.S. Patent Application Serial No. 09/597,392 09/596,712, now U.S. Patent No. 6,747,959, entitled "Voice-Data Integrated

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Multiaccess By Self-Reservation and Blocked Binary Tree Resolution," invented by J.-M. Ho and filed June 19, 2000; and U.S. Patent Application Serial No. 09/596,712 09/597,392, now U.S. Patent No. 6,963,545, entitled "Voice-Data Integrated Multiaccess By Self-Reservation and Stabilized Aloha Contention," invented by J.-M. Ho, and filed June 19, 2000, each of which is incorporated by reference herein.

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Reasons for Allowance

6. The following is an examiner's statement of reasons for allowance: Claims 1-61 and 80-

91 are allowable over the prior art of record.

7. The examiner has found that the prior art of record does not teach, suggest, or render

obvious the specific combination of a method or a communications network comprising

providing access to a communications medium, the communications medium being suitable

for allowing use of Home Phoneline Network Association (HPNA) v2-formatted frames,

each HPNA v2-formatted frame being timed to allow a plurality of physical layer priority

level slots, comprising of: at least one enhanced STA adapted to always choose a Backoff

Signal Slot 0 of an HPNA v2 frame during contention resolution with an HPNA v2 station,

the Backoff Signal Slot 0 is one of only three Backoff Signal Slots specified under HPNA v2

for use in contention resolution after a collision (major difference in the claims not found in

the prior art) as set forth in the specification and recited in independent claims 1, 18, 32, 49

and 80.

8. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the

issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons

for Allowance OR Examiner's Amendment."

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Alicia Baturay whose telephone number is (571) 272-3981. The examiner

can normally be reached at M-Th 7am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Jeffrey Pwu can be reached on (571) 272-6798. The fax number for the organization where this

application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be

obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alicia Baturay

October 31, 2008

/Jeffrey Pwu/

Supervisory Patent Examiner, Art Unit 2446